

## 2. Specifications

### 2-1. Stand-alone

Nominal system capacity			HP	8	10	12	
Model name				AJ*072GALDH	AJ*090GALDH	AJ*108GALDH	
Power supply			3N 400 V ~ 50 Hz				
Available voltage range			342—456 V				
Capacity	Cooling	Rated	kW	22.4	28.0	33.5	
			Btu/h	76,400	95,500	114,300	
		Heating	Rated (Nominal)	kW	22.4	28.0	33.5
	Btu/h			76,400	95,500	114,300	
	Maximum		kW	25.0	31.5	37.5	
				Btu/h	85,300	107,400	127,900
Input power	Cooling	Rated	kW	6.26	9.53	11.89	
				Rated (Nominal)	5.37	7.38	9.16
	Heating	Maximum		6.25	8.96	11.48	
			10.5	15.1	18.7		
Current	Cooling	Rated	A	9.3	12.1	14.7	
	Heating	Rated (Nominal)		86	91	92	
Power factor	Cooling		%	83	88	90	
	Heating			3.57	2.93	2.81	
EER	Cooling			4.17	3.79	3.65	
COP	Heating	Rated (Nominal)	W/W	4.00	3.51	3.26	
		Maximum					
Fan	Airflow rate	Cooling	Rated	9,000 (2,500)		10,200/11,100 (2,833/3,084)	
				Heating	HIGH		11,100 (3,084)
		Cooling	HIGH				
				Heating	HIGH		
	External static pressure (Max.)					Pa	80
	Type × Q'ty				Propeller fan × 1		
Motor				DC motor × 1			
Motor output			W	750			
Sound pressure level*	Cooling		dB (A)	56	58	59	
	Heating			58	59	63	
Sound power level	Cooling		dB (A)	77	78	79	
	Heating			79	79	82	
Heat exchanger type	Length		mm	1,760			
	Fin pitch			1.45			
	Rows × Stages			3 × 60			
	Face area		m <sup>2</sup>	2.2			
	Pipe type (Material)			Grooved H-pin (Copper)			
	Fin		Type	Corrugate (Aluminum)			
		Surface treatment	Corrosion resistance (Blue fin)				
Compressor	Type × Q'ty			Rotary (inv) × 1			
	Displacement		cm <sup>3</sup>	65.3			
	Motor output		kW	7.5			
	Crankcase heater		W	35 × 2			
Refrigerant	Type (Global Warming Potential)			R410A (2088)			
	Charge		kg	11.8			
Refrigerant oil	Type			POE			
	Amount		cm <sup>3</sup>	3,000			
Enclosure	Material			Painted galvanized steel			
	Color			Beige Approximate color of Munsell 10YR 7.5/1.0NN			
Dimensions (H × W × D)	Net		mm	1,690 × 930 × 765			
	Gross			1,811 × 1,002 × 847			
Weight	Net		kg	262			
	Gross			285			
Connection pipe	Pipe diameter	Liquid	mm (in)	Ø 12.70 (Ø 1/2)			
		Discharge gas		Ø 15.88 (Ø 5/8)	Ø 19.05 (Ø 3/4)		
		Suction gas		Ø 22.22 (Ø 7/8)		Ø 28.58 (Ø 1-1/8)	
	Method	Liquid		Brazing			
		Discharge gas		Brazing			
		Suction gas		Brazing			
Max. length		m	165				
Max. height difference			50/40 (Outdoor unit: Higher/Lower)				
Operation temperature range	Cooling		°CDB	-10 to 46			
	Heating			-20 to 21			
	Cooling/Heating simultaneous			-10 to 21			
Defrost method				Reversed cycle			
Compressor capacity control (Steps/Range)				951 steps/20 to 115 rps			
Connectable indoor units number		Maximum		17	21	26	
		Minimum			2		
<b>NOTES:</b>							
<ul style="list-style-type: none"> <li>• Specifications are based on the following conditions: <ul style="list-style-type: none"> <li>– Cooling: Indoor temperature of 27 °CDB/19 °CWB, and outdoor temperature of 35 °CDB/24 °CWB.</li> <li>– Heating: Indoor temperature of 20 °CDB/15 °CWB, and outdoor temperature of 7 °CDB/6 °CWB.</li> <li>– Pipe length: 7.5 m, Height difference: 0 m. (Between outdoor unit and indoor unit.)</li> </ul> </li> <li>• This data is based on following standard: EN14511, EN12102.</li> <li>• Protective function might work when using it outside the operation range.</li> <li>• *: Sound pressure level: <ul style="list-style-type: none"> <li>– Measured values in manufacturer's anechoic chamber.</li> <li>– Because of the surrounding sound environment, the sound levels measured in actual installation conditions might be higher than the specified values here.</li> </ul> </li> </ul>							